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# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## September / October 2023 Supplementary Examinations

**Programme: B.E.**

**Branch: Civil Engineering**

**Course Code: 20CV5PEDMM**

**Course: Disaster Management and Mitigation**

**Semester: V**

**Duration: 3 hrs.**

**Max Marks: 100**

**Date: 25.09.2023**

### Instructions:

1. Answer 5 full questions choosing one full question from Units 2 and 3
2. Answer all parts of the questions together

### UNIT - I

1 a) Define the terms Disaster, Hazard, Risk, Vulnerability and Resilience **05**  
 b) Disaster vulnerability is caused by different factors. Explain the different types of vulnerability based on the causative factors. **07**  
 c) Discuss the key objectives on which an ideal disaster management plan should be focused on. **08**

### UNIT - II

2 a) The world is facing greatest social, economical and environmental challenges due to COVID-19 pandemic. Evaluate the efforts taken by the Govt. India to manage the pandemic. **10**  
 b) Explain the Graded Response Action Plan developed by the Delhi Government to manage the severe air pollution. **10**

### OR

3 Consider your college as a case study area.  
 a) Identify any two potential hazards on the campus and list their characteristics. **08**  
 b) List the resources currently available in the campus to manage the hazard. **05**  
 c) Suggest the appropriate plans to improve the hazard preparedness in the campus. **07**

### UNIT - III

4 a) Compare the benefits and drawbacks of print media, broadcast media and internet based media for disaster management. **10**  
 b) Discuss the role of NDMA and National Executive Committee in disaster management. **10**

### OR

**Important Note:** Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

5	a) Distinguish between evacuation and migration.	<b>05</b>
	b) List the objectives of an ideal disaster response plan.	<b>07</b>
	c) Explain the components of the Disaster Management Cycle.	<b>08</b>

#### **UNIT - IV**

6	a) Discuss the disaster profile of India.	<b>10</b>
	b) A paradigm shift in the disaster management approach was initiated by the Disaster Management Act. Justify the same stating the salient features of the act.	<b>10</b>

#### **UNIT - V**

7	a) Even with a scientific disaster management policy and a well-structured institutional arrangement, various disasters continue to cause damage to properties, lives and livelihood with devastating impact. In this context identify the major challenges in disaster management.	<b>10</b>
	b) Discuss how climate change is likely to aggravate the disaster risks.	<b>10</b>

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